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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,353	08/20/2003	Igor V. Kutyavin	17682A-007910US	6753
	7590 01/09/200 AND TOWNSEND AN	EXAMINER		
TWO EMBARCADERO CENTER			WHISENANT, ETHAN C	
EIGHTH FLOC SAN FRANCIS	SCO, CA 94111-3834		ART UNIT	PAPER NUMBER
			1634	
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SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MOI	NTHS	01/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/645,353	KUTYAVIN ET AL.	KUTYAVIN ET AL.			
		Examiner	Art Unit				
		Ethan Whisenant, Ph.D.	1634				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet w	vith the correspondence ad	dress			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNI (6(a). In no event, however, may a fill apply and will expire SIX (6) MO cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this co. BANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>04 Oc</u>	etober 2006					
•	·	action is non-final.					
•=	,						
٥,٠	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🛛	4)⊠ Claim(s) <u>1-25 and 29-32</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)) Claim(s) <u>1-23,25 and 29-32</u> is/are allowed.						
6)⊠	Claim(s) <u>24</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers						
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>20 August 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
•	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	• •	_					
	e of References Cited (PTO-892)		Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)		(s)/Mail Date Informal Patent Application				
	r No(s)/Mail Date	6) Other:					

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FINAL ACTION

1. The applicant's response (filed 04 OCT 06) to the Office Action has been entered. Following the entry of the claim amendment(s), Claim(s) 1-25, 29-32 is/are pending with Claims 25-26. Rejections and/or objections not reiterated from the previous office action are hereby withdrawn. The following rejections and/or objections are either newly applied or reiterated. They constitute the complete set presently being applied to the instant application.

SEQUENCE RULES

2. This application now complies with the sequence rules and the sequences have been entered by the Scientific and Technical Information Center.

35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that may form the basis for rejections set forth in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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4. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claim Rejections under 35 USC § 102

5. Claim(s) 24 is/are rejected under 35 U.S.C. 102(b) as being anticipated by Backman et al. [US 5,516,663 (1996)].

Claim 24 is drawn to a kit comprising an AP site probe comprising an oligonucleotide NA that hybridizes to the target nucleic acid and a functional tail R comprising a detectable reporter group, said functional tail R attached via a phosphodiester bond of a phosphate group to the 3' terminal nucleotide of the NA

Backman et al. teach a kit comprising an AP site probe as set forth in Claim 24. Note especially Figure 1 and Claim 30 in Columns 60-61. Referring to Figure 1, note that the A oligo comprises a functional tail (i.e. the –xCGCG). Backman et al. teach that this tail may be labeled and detected upon release (by an AP endonuclease) from the modified probe to detect a target nucleic acid. See especially Column 4, beginning at about line 36.

RESPONSE TO APPLICANT'S AMENDMENT/ ARGUMENTS

6. Applicant's arguments with respect to the claimed invention have been fully and carefully considered but are not deemed to be persuasive.

The applicant traverses the rejection in part arguing that Backman et al. do not teach the AP site probe as now recited in Claim 24. The examiner respectfully disagrees for at least the reasons set forth above against Claim 24.

CONCLUSION

- 7. Claim(s) 1-23, 25, and 29-32 is/are allowable for the reason(s) of record while Claim(s) 24 is/are rejected and/or objected to for the reason(s) set forth above.
- **8. THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ethan Whisenant, Ph.D. whose telephone number is (571) 272-0754. The examiner can normally be reached Monday-Friday from 8:30AM - 5:30PM EST or any time via voice mail. If repeated attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla, can be reached at (571) 272-0735.

The Central Fax number for the USPTO is (571) 273-8300. Please note that the faxing of papers must conform with the Notice to Comply published in the Official Gazette, 1096 OG 30 (November 15, 1989).

ETHAN WHISENANT PRIMARY EXAMINER

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